

140C

PASSAIC VALLEY SEWERAGE COMMISSIONERS
LIQUID WASTE ACCEPTANCE PROGRAM
APPLICATION FOR INDUSTRIAL LIQUID WASTE

THIS APPLICATION TO BE COMPLETED BY WASTE GENERATOR

1. Waste Generator Name: International Flavors & Fragrances Inc.
2. Waste Generator Address: Hazlet Compounding - 600 State Hwy #36
Hazlet, New Jersey Zip Code: 07730
3. Waste Generator Telephone Number: 732-264-4500 Fax No.: 732-335-2592
4. Waste Generator US EPA ID No. (if any): NJD055936587
5. Person to contact concerning information provided in this application:
Name of Contact: Brian J. Kiel
Title: Manager - Environmental Affairs
Phone No.: 732-578-6734 Fax No.: 732-578-6750
Address: 1040 Broad Street, Shrewsbury New Jersey
Zip Code: 07702

BILLING INFORMATION

6. Billing Contact Name: IFF Accounts Payable
7. Billing Contact Address: 600 State Hwy #36
Hazlet, New Jersey Zip Code: 07730
8. Billing Contact Telephone Number: (732) 264-4500 Fax No.: (732) 335-2308

FACILITY INFORMATION [COMPLETE 9-12 ONLY IF DIFFERENT FROM 1-4 ABOVE]

9. Facility Name: (Same As Above)
10. Facility Address: _____
_____ Zip Code: _____
11. Facility Telephone Number: _____ Fax No.: _____
12. Facility US EPA ID No. (if any): _____
13. Facility NPDES or NJPDES No. (if any): _____

14. Brief description of manufacturing or other activity performed at facility: Manufacturer of
Essential Fragrances & Oils
- List SIC CODE # with description: 2894 - Perfumes, Cosmetics & other Toilet Preparations
15. Is the Liquid Waste subject to applicable categorical pretreatment standard(s)? Yes/No No
If so, list current control authority: _____

****NOTE: IF THE WASTE IS SUBJECT TO A CATEGORICAL PRE-TREATMENT STANDARD, CONTACT PVSC FOR A "CATEGORICAL WASTE ADDENDUM" TO THIS APPLICATION.

16. List the industrial category for the Liquid Waste, if applicable: NA
Subpart (s): _____
17. List the pre-treatment control authority which you are currently reporting to: BRSA - Bayshore
Regional Sewerage Authority (Permit # BRSA 000003)
18. Is facility in compliance? Yes/No Yes If not, and if compliance date has passed, explain actions being taken to get into compliance: _____

PRETREATMENT

19. Does the Liquid Waste exceed any of the applicable categorical pretreatment standard(s) for this Liquid Waste?
Yes/No No Non-SIU - Non Categorical

RCRA

20. Does the Liquid Waste come from a facility, or any portion of the facility, that is regulated as a Federal and/or State Resource Conservation and Recovery Act (RCRA) facility for treatment, storage, or disposal?
Yes/No Yes If YES, explain: 590 Day LQG - Generator
RCRA waste is stored separately from the Wastewater Pretreatment Plant.

IF YOUR RESPONSE IS "YES" TO ANY OF THE QUESTIONS NUMBERED 21 THROUGH 26 OR 28, PLEASE DO NOT PROCEED ANY FURTHER WITH THIS APPLICATION BECAUSE THE LIQUID WASTE CANNOT BE ACCEPTED FOR TREATMENT AT THE PASSAIC VALLEY SEWERAGE COMMISSIONERS WWTP.

21. Is the Liquid Waste a listed RCRA hazardous waste (40 CFR 261, N.J.A.C. 7:26G-1 et seq.) (F, P, K, U listed waste)?
Yes/No No
22. Is the Liquid Waste a characteristic RCRA hazardous waste (40 CFR 261, N.J.A.C. 7:26G-1 et seq.) (D waste)?
Yes/No No
23. Is the Liquid Waste a mixture of a RCRA hazardous waste (40 CFR 261, N.J.A.C. 7:26G-1 et seq.) with a non-hazardous waste?
Yes/No No
24. Is the Liquid Waste derived from a listed RCRA hazardous waste (40 CFR 261, N.J.A.C. 7:26G-1 et seq.)?
Yes/No No
25. Is the Liquid Waste the product of a spill/cleanup of a listed RCRA hazardous waste (40 CFR 261, N.J.A.C. 7:26G-1 et seq.)?
Yes/No No

26. Was the Liquid Waste a listed RCRA hazardous (40 CFR Part 261) as generated and rendered RCRA non-hazardous by pretreatment? Yes/No No

27. Please provide any exclusions which may render the waste RCRA non-hazardous (40 CFR 261, N.J.A.C. 7:26G-1 et seq.) This particular waste stream (influent wastewater) is non-hazardous and is being considered for offsite treatment/disposal due to limited treatment capacity with the existing wastewater pretreatment (JFF) Plant.

OTHER

PVSC Contract # 140C.

28. Does the Liquid Waste contain substances in concentrations that are regulated by the Toxic Substances Control Act (TSCA) (40 CFR Subchapter R) including PCBs (40 CFR 761)? Yes/No No

IF YOUR RESPONSE IS "YES" TO ANY OF THE QUESTIONS NUMBERED 21 THROUGH 26 OR 28 ABOVE, PLEASE DO NOT PROCEED ANY FURTHER WITH THIS APPLICATION. THE LIQUID WASTE CANNOT BE ACCEPTED FOR TREATMENT AT THE PASSAIC VALLEY SEWERAGE COMMISSIONERS (PVSC) WWTP. ANY PERSON DISCHARGING SUCH LIQUID WASTE VIA TRUCK TO PVSC'S WWTP FOR TREATMENT WILL BE SUBJECT TO PUNISHMENT INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

PROPERTIES OF THE LIQUID WASTE

29. Name of Liquid Waste: Influent Wastewater

Sludge Graywater X

30. Description of process generating the Liquid Waste: Wastewater is generated by the cleaning of tanks, totes, cans and other containers.

(Attach process flow diagram)

31. Principal raw materials used in the process generating the Liquid Waste: Essential
Fragrances and Oils (non petroleum)

32. Principal products (or service) from which the Liquid Waste is generated: Manufacturing
(Bulking + Blending) of fragrance compounds.

33. Has the Liquid Waste been pretreated? Yes/No No

If so, describe pretreatment process in use:

The subject wastestream is from the influent storage area.

(Attach pretreatment process flow diagram)

34. Is the Liquid Waste generated as a result of a site cleanup/compliance activity?: Yes/No No
If so, describe cleanup/compliance activity and the regulatory program: _____

35. Estimated quantity of Liquid Waste to be delivered:

Estimated gallons per week: 1-10 Loads per month
Estimated gallons per year: 450,000 674
Estimated length of disposal services needed (months, years, one time, etc.):
On-going 1 year +

PLEASE NOTE THAT FOR DISPOSAL SERVICES EXTENDING BEYOND ONE YEAR, A COMPLETED LIQUID WASTE ACCEPTANCE PROGRAM "APPLICATION FOR INDUSTRIAL LIQUID WASTE" MUST BE SUBMITTED ANNUALLY.

36. Liquid Waste Composition (major components and CAS numbers):

Component	Concentration Range (wt.% or ppm)		
	Lower	Upper	Typical
- Water	98%+	99%+	99%+
- VOC's (sources include: alcohol (ethanol), fragrance compounds	0.01%	0.03%	0.025%
- Semi-volatile organics	0.01%	0.10%	0.03%
TOTAL			100%

37. Is Liquid Waste currently disposed at one or more facilities? If so, please provide the following information for the current facility or facilities: No, other than the POTW (BRSA) & PVSL (#1400)

FACILITY 1

Facility Name NA
Facility Address _____
Type of Facility _____
Facility Permit Number _____
Type of Permit _____
Is Liquid Waste handled as RCRA hazardous or non-hazardous waste by this facility? _____
Provide any limitations on the Liquid Waste imposed by this facility _____

FACILITY 2

Facility Name NA
Facility Address _____
Type of Facility _____
Facility Permit Number _____
Type of Permit _____
Is Liquid Waste handled as RCRA hazardous or non-hazardous waste by this facility? _____
Provide any limitations on the Liquid Waste imposed by this facility _____

38. Is or has the facility ever been connected to a municipal sewer system? Yes/No Yes
 If so, explain why this Liquid Waste is not discharged to the sewer limited on-site pretreatment capacity
39. Is there a separate component of the Liquid Waste stream disposed at other facilities, such as a sludge component? Yes/No Yes PVSC (140B)
 If so, is the separate component disposed as a RCRA hazardous waste? Yes/No No
 If so, indicate RCRA hazardous waste code(s) —
40. Is the Liquid Waste subject to reporting requirements under New Jersey Sludge Quality Assurance Regulations, also referred to as SQAR (N.J.A.C 7:14-4 et seq.), or the equivalent in the generator's state?: Yes/No No
 If so, attach copies of SQAR or equivalent reports for the last six (6) months to this form. NA
41. Is the Liquid Waste known to gel or solidify? Yes/No No
42. Is the Liquid Waste known to be incompatible or reactive with other chemicals? Yes/No No
 If so, list incompatibility(ies) NA - pH neutral

ANALYSIS OF LIQUID WASTE

43. Does Liquid Waste contain separate phase organic material (floating or sinking oils or solvents) or solids? Yes/No Possibly If yes, please list all phases An oil sheen may be present - Fragrance Oils
44. Analysis for all separate phases of the Liquid Waste must be performed on a representative sample collected:
 Samples collected by: IFF Contractors - STL Edison / JWT Date: 12/09/2009 (Received)
 Samples analyzed by: STL Edison Date: Various (see attached reports)
 Products being manufactured when sample was collected: Botel Facility - general operations

ALL SEPARATE PHASES MUST BE SAMPLED SEPARATELY. ALL SEPARATE PHASES MUST BE ANALYZED SEPARATELY AND REPORTED BY A STATE CERTIFIED ANALYTICAL LABORATORY (IN ALL ANALYSES PROVIDED). THE ANALYSES SUBMITTED MUST BE FOR THE LIQUID WASTE STREAM THAT IS THE SUBJECT OF THIS APPLICATION.

List State laboratory certification number 12028

45. Analysis for all separate phases of the Liquid Waste must be performed on a representative sample collected for the waste stream:

For a GRAYWATER (typically less than 2% Total Solids) analyze for the parameters listed in Table 1A. Analysis for any metals listed in Table 1A should be for Total Metals (NOT TCLP METALS, WHICH ARE REQUIRED IN TABLE 3). Attach a complete laboratory analysis for all results listed in Table 1A including the Chain-of-Custody and signed Lab Certification.

Table 1A – GRAYWATER

Parameter	Value	Limit (mg/L)	Parameter	Value	Limit (mg/L)
Total Solids (TSS)	154 mg/l		Arsenic (As)	ND	0.15
Volatile Solids			Cadmium (Cd)	ND	0.19
Total Suspended Solids (Dissolved)	415 mg/l		Chromium Total (Cr) (ppb)	6.0 ug/l	Suspended
Volatile Suspended Solids			Copper (Cu) (ppm)	0.0623	3.02
Petroleum Hydrocarbons	10.6 mg/l	100	Lead (Pb) (ppm)	0.0088	0.54
Biochemical Oxygen Demand (BOD)	2680 mg/l		Molybdenum (Mo)	/	Suspended
Chemical Oxygen Demand (COD)	5070 mg/l		Mercury (Report to 0.XXX)	ND	0.080
Total Organic Carbon (TOC)	1170 mg/l		Selenium (Se)	/	
Ortho Phosphates as P (Total)	16.4 mg/l		Nickel (Ni) (ppm)	0.0045	5.9
Ammonia as NH ₃	0.72 mg/l		Zinc (Zn) (ppm)	0.271	1.67
Kjeldahl N as N					
			OTHER: (2)		
			Ignitability (°F)	7160	
TTO (Report to 0.XXX) (1)	(See Below)				
TTVO (Report to 0.XXX) (1)					

(1) If required by Categorical Pretreatment Standards.

(2) List results for major components listed in question 36 and any additional parameters required by Categorical Pretreatment Standards.

ND = Non Detected

- Volatile Organics - Method 624

- Semi Volatile Organics - Method 625

} Results are attached

For a SLUDGE (typically greater than 2% Total Solids) analyze for the parameters listed in Table 1B. Analysis for any metals listed in Table 1B should be for Total Metals (NOT TCLP METALS, WHICH ARE REQUIRED IN TABLE 3). Attach a complete laboratory analysis for all results listed in Table 1B including the Chain-of-Custody and signed Lab Certification.

Table 1B – SLUDGE

NA

Parameter	Value	Parameter	Value (mg/kg)	Limit (mg/kg)
Total Solids		Arsenic (As)		41
Volatile Solids		Cadmium (Cd)		39
Total Suspended Solids		Chromium Total (Cr)		1,200
Petroleum Hydrocarbons		Copper (Cu)		1,500
Ortho Phosphates as P		Lead (Pb)		300
Ammonia as NH ₃		Mercury (Hg)		17
Kjeldahl N as N		Molybdenum (Mo)		Suspended
		Nickel (Ni)		420
		Selenium (Se)		100
		Zinc (Zn)		2,800
		OTHER: (2)		
TTO (Report to 0.XXX) (1)				
TTVO (Report to 0.XXX) (1)				

- (1) If required by Categorical Pretreatment Standards.
 (2) List results for major components listed in question 36 and any additional parameters required by Categorical Pretreatment Standards.

46. List RCRA hazardous waste characterization analytical laboratory results and indicate which contaminants exceed regulatory levels. Attach RCRA hazardous waste characterization analytical laboratory results listed below. Analyses must be performed on a representative sample collected for the Liquid Waste that is the subject of this application.

IF ANY OF THE RCRA HAZARDOUS WASTE CHARACTERIZATION ANALYTICAL DATA VALUES EXCEED REGULATORY LEVELS, THE LIQUID WASTE CANNOT BE ACCEPTED FOR TREATMENT AT THE PASSAIC VALLEY SEWERAGE COMMISSIONERS (PVSC) WWTP. ANY PERSON DISCHARGING SUCH LIQUID WASTE VIA TRUCK TO PVSC'S WWTP FOR TREATMENT WILL BE SUBJECT TO PUNISHMENT INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

Table 2 – RCRA TOXICITY CHARACTERISITICS

Waste Characteristic	Regulatory Level	Value	Exceeds Regulatory Level?	
			Yes	No
D001: Ignitability	liquids with a flash point below 140° F or 60° C			
D002: Corrosivity	liquids with a pH below 2 and above 12.5			
D003: Reactivity	liquids that are chemically unstable and readily undergo violent change, are susceptible to detonation, react violently with water, or emit toxic fumes. Reactive sulfide above 500 ppm; reactive cyanide above 250 ppm.			

Toxicity Characteristic Leachate Procedure or TCLP:

TABLE 3

Maximum Concentration of Contaminants for the Toxicity Characteristic

EPA HW No. {1}	Contaminant	CAS No.{2}	Regulatory Level (mg/L)	Value (mg/L)	Exceeds Regulatory Level?	
					Yes	No
D004	Arsenic	7440-38-2	5.0			
D005	Barium	7440-39-3	100.0			
D006	Cadmium	7440-43-9	1.0			
D007	Chromium	7440-47-3	5.0			
D008	Lead	7439-92-1	5.0			
D009	Mercury	7439-97-6	0.2			
D010	Selenium	7782-49-2	1.0			
D011	Silver	7440-22-4	5.0			
D012	Endrin	72-20-8	0.02			
D013	Lindane	58-89-9	0.4			
D014	Methoxychlor	72-43-5	10.0			
D015	Toxaphene	8001-35-2	0.5			
D016	2,4-D	94-75-7	10.0			
D017	2,4,5-TP (Silvex)	93-72-1	1.0			
D018	Benzene	71-43-2	0.5			
D019	Carbon tetrachloride	56-23-5	0.5			
D020	Chlordane	57-74-9	0.03			
D021	Chlorobenzene	108-90-7	100.0			
D022	Chloroform	67-66-3	6.0			
D023	o-Cresol	95-48-7	{4} 200.0			
D024	m-Cresol	108-39-4	{4} 200.0			
D025	p-Cresol	106-44-5	{4} 200.0			
D026	Cresol		{4} 200.0			
D027	1,4 - Dichlorobenzene	106-46-7	7.5			
D028	1,2 - Dichloroethane	107-06-2	0.5			
D029	1,1 - Dichloroethylene	75-35-4	0.7			
D030	2,4 - Dinitrotoluene	121-14-2	{3} 0.13			
D031	Heptachlor (and its epoxide)	76-44-8	0.008			

TABLE 3 (cont.)

Maximum Concentration of Contaminants for the Toxicity Characteristic (cont.)

EPA HW No. {1}	Contaminant	CAS No.{2}	Regulatory Level (mg/L)	Value (mg/L)	Exceeds Regulatory Level?	
					Yes	No
D032	Hexachlorobenzene	118-74-1	{3} 0.13			
D033	Hexachlorobutadiene	87-68-3	0.5			
D034	Hexachloroethane	67-72-1	3.0			
D035	Methyl ethyl ketone	78-93-3	200.0			
D036	Nitrobenzene	98-95-3	2.0			
D037	Pentachlorophenol	87-86-5	100.0			
D038	Pyridine	110-86-1	{3} 5.0			
D039	Tetrachloroethylene	127-18-4	0.7			
D040	Trichloroethylene	79-01-6	0.5			
D041	2,4,5-Trichlorophenol	95-95-4	400.0			
D042	2,4,6-Trichlorophenol	88-06-2	2.0			
D043	Vinyl chloride	75-01-4	0.2			

{1} Hazardous waste number.

{2} Chemical abstracts service number.

{3} Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

{4} If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

[55 FR 11862, Mar. 29, 1990, as amended at 55 FR 22684, June 1, 1990; 55 FR 26987, June 29, 1990; 58 FR 46049, Aug. 31, 1993]

NOTE: VERBAL COMMUNICATION

Verbal communication by the applicant shall not be accepted and no representative, agent or employee of PVSC is authorized to accept any verbal communication from the applicant to vary, alter or modify the terms of this application. Similarly, no representative, agent, or employee of PVSC has been authorized to make any representations or to vary, alter or modify the terms hereof. No additions, changes or modifications, renewals or extensions hereof, shall be binding unless reduced to writing and signed by the applicant and PVSC.

CERTIFICATION:

I certify under penalty of law that this document and attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false, information, including the possibility of fine and imprisonment.

I further certify that:

The analytical data presented herein or attached hereto were derived from testing a representative sample of the Liquid Waste collected in accordance with 40 CFR 261.20 (c) or equivalent rules.

The Liquid Waste is not a "hazardous waste" as defined by Federal regulation and/or State regulation.

The Liquid Waste meets all applicable Federal categorical pretreatment standards.

The Liquid Waste does not contain regulated radioactive materials or regulated concentrations of PCBs.

All relevant information about the Liquid Waste regarding known or suspected hazards in the possession of the Generator has been disclosed.

If any changes occur in the character of the Liquid Waste, the Generator shall notify PVSC in writing prior to providing the material for disposal.

If the applicant is a corporation, a corporate resolution is attached granting me the authority to sign the application on behalf of the corporation.

Name of signing official: Robert M. Konish

PRINT

TITLE

Director Hazard Compounding Facility

DATE

1-11-05

SIGNATURE

Robert M. Konish

* APPLICATION MUST BE SIGNED BY ONE OF THE FOLLOWING:

- Principal Officer of Corporation
- President or Owner of Company
- General Partner if a Partnership
- Plant Manager or Authorized Representative

Rev. 11/25/03

**SEVERN
TRENT****STL****STL Edison**777 New Durham Road
Edison, NJ 08817Tel: 732 549 3900 Fax: 732 549 3679
www.stl-inc.com

01/04/2005

International Flavors and Fragrances - R&D
1515 US Highway 36
Union Beach, NJ 07735

Attention: Mr. Brian Kiel

Laboratory Results
Job No. Q072 - PVSA Annual

Dear Mr. Kiel:

Enclosed are the results you requested for the following sample(s) received at our laboratory on December 9, 2004.

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
591628	Hazlet_EQ_Tank	PP VOA+15 PP BNA+25 Ag,As,Be,Cd,Cr,Cu,Hg,Ni,Pb,Zn PHC Ignitability TOC COD TDS TSS Ammonia Tot. Phosphorus

Leaders in Environmental Testing



Severn Trent Laboratories, Inc.

Client ID: Hazlet_EQ_Tank
Site: PVSA Annual

Lab Sample No: 591628
Lab Job No: Q072

Date Sampled: 12/09/04
Date Received: 12/09/04
Date Analyzed: 12/20/04
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v75867.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	1.9
Bromomethane	ND	1.6
Vinyl Chloride	ND	1.8
Chloroethane	ND	1.8
Methylene Chloride	ND	4.6
Trichlorofluoromethane	ND	1.8
1,1-Dichloroethene	ND	1.7
1,1-Dichloroethane	ND	1.8
trans-1,2-Dichloroethene	ND	1.6
cis-1,2-Dichloroethene	ND	1.8
Chloroform	4.2	1.7
1,2-Dichloroethane	ND	1.8
1,1,1-Trichloroethane	ND	1.4
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.4
1,2-Dichloropropane	ND	1.8
cis-1,3-Dichloropropene	ND	1.4
Trichloroethene	ND	2.0
Dibromochloromethane	ND	1.0
1,1,2-Trichloroethane	ND	1.4
Benzene	ND	1.6
trans-1,3-Dichloropropene	ND	1.8
2-Chloroethyl Vinyl Ether	ND	1.8
Bromoform	ND	1.4
Tetrachloroethene	ND	1.8
1,1,2,2-Tetrachloroethane	ND	2.3
Toluene	10	1.4
Chlorobenzene	ND	1.3
Ethylbenzene	3.1	1.6
Xylene (Total)	3.4	0.9

Client ID: Hazlet_EQ_Tank
Site: PVSA Annual

Lab Sample No: 591628
Lab Job No: Q072

Date Sampled: 12/09/04
Date Received: 12/09/04
Date Analyzed: 12/20/04
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v75867.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Ethanol	4.90	1400	
2. 2-Propanol	5.52	360	
3. C10H20 Cycloalkane	12.80	390	
4. Coeluting Unknowns	13.94	190	
5. C10H18 Cycloalkene	14.18	260	
6. C10H18 Cycloalkene	14.42	860	
7. C10H16 Aromatic	14.72	3700	
8. 1,8-Cineole	14.93	810	
9. C10H16 Aromatic	15.04	150	
10. Unknown	15.40	2700	
11. Unknown Alcohol	15.70	2700	
12. Unknown	16.62	260	
13. Benzene, 1-methoxy-4-(2-propenyl)-	17.26	230	
14. Unknown	17.75	2200	
15. Coeluting Unknowns	18.93	1600	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

17810

Client ID: Hazlet_EQ_Tank
Site: PVSA Annual

Lab Sample No: 591628
Lab Job No: Q072

Date Sampled: 12/09/04
Date Received: 12/09/04
Date Extracted: 12/13/04
Date Analyzed: 12/22/04
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa4447.d

Matrix: WATER
Level: LOW
Sample Volume: 990 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 25.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u>
		<u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	13
2-Chlorophenol	ND	30
2-Nitrophenol	ND	39
2,4-Dimethylphenol	ND	24
2,4-Dichlorophenol	ND	29
4-Chloro-3-methylphenol	ND	28
2,4,6-Trichlorophenol	ND	18
2,4-Dinitrophenol	ND	41
4-Nitrophenol	ND	16
4,6-Dinitro-2-methylphenol	ND	6.1
Pentachlorophenol	ND	62

Client ID: Hazlet_EQ_Tank
Site: PVSA Annual

Lab Sample No: 591628
Lab Job No: Q072

Date Sampled: 12/09/04
Date Received: 12/09/04
Date Extracted: 12/13/04
Date Analyzed: 12/22/04
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa4447.d

Matrix: WATER
Level: LOW
Sample Volume: 990 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 25.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
N-Nitrosodimethylamine	ND	15
bis(2-Chloroethyl) ether	ND	23
1,3-Dichlorobenzene	ND	7.6
1,4-Dichlorobenzene	ND	12
1,2-Dichlorobenzene	ND	9.3
bis(2-chloroisopropyl) ether	ND	14
N-Nitroso-di-n-propylamine	ND	15
Hexachloroethane	ND	18
Nitrobenzene	ND	14
Isophorone	ND	9.1
bis(2-Chloroethoxy) methane	ND	15
1,2,4-Trichlorobenzene	ND	7.6
Naphthalene	ND	1.0
Hexachlorobutadiene	ND	33
Hexachlorocyclopentadiene	ND	11
2-Chloronaphthalene	ND	9.8
Dimethylphthalate	ND	7.8
Acenaphthylene	ND	1.8
2,6-Dinitrotoluene	ND	14
Acenaphthene	ND	2.3
2,4-Dinitrotoluene	ND	10
Diethylphthalate	2100	6.1
4-Chlorophenyl-phenylether	ND	7.1
Fluorene	ND	2.8
N-Nitrosodiphenylamine	ND	6.1
4-Bromophenyl-phenylether	ND	9.6
Hexachlorobenzene	ND	7.6
Phenanthrene	ND	2.3
Anthracene	ND	2.3
Di-n-butylphthalate	ND	11
Fluoranthene	ND	1.8
Pyrene	ND	1.8
Benzidine	ND	330
Butylbenzylphthalate	ND	16

Client ID: Hazlet_EQ_Tank
Site: PVSA Annual

Lab Sample No: 591628
Lab Job No: Q072

Date Sampled: 12/09/04
Date Received: 12/09/04
Date Extracted: 12/13/04
Date Analyzed: 12/22/04
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa4447.d

Matrix: WATER
Level: LOW
Sample Volume: 990 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 25.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
3,3'-Dichlorobenzidine	ND	60
Benzo(a)anthracene	ND	2.3
Chrysene	ND	2.3
bis(2-Ethylhexyl)phthalate	43	19
Di-n-octylphthalate	ND	13
Benzo(b)fluoranthene	ND	2.3
Benzo(k)fluoranthene	ND	1.5
Benzo(a)pyrene	ND	1.8
Indeno(1,2,3-cd)pyrene	ND	2.3
Dibenz(a,h)anthracene	ND	2.5
Benzo(g,h,i)perylene	ND	1.8

Client ID: Hazlet_EQ_Tank
Site: PVSA Annual

Lab Sample No: 591628
Lab Job No: Q072

Date Sampled: 12/09/04
Date Received: 12/09/04
Date Extracted: 12/13/04
Date Analyzed: 12/22/04
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa4447.d

Matrix: WATER
Level: LOW
Sample Volume: 990 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 25.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Benzenemethanol	6.54	6000	
2. Unknown	6.90	15000	
3. Unknown	7.19	13000	
4. Benzeneethanol	7.40	3600	
5. Unknown	8.16	3600	
6. Unknown	8.41	3400	
7. Unknown	9.02	3300	
8. Unknown	9.45	2500	
9. Unknown	10.24	2000	
10. Unknown	10.69	4100	
11. Unknown	10.97	2100	
12. Unknown	11.04	2300	
13. Unknown	11.25	2400	
14. Unknown	11.36	3500	
15. Unknown	11.55	2900	
16. Unknown	11.82	2800	
17. Unknown	11.90	8100	
18. Unknown	12.05	10000	
19. Unknown	12.10	5300	
20. Unknown	12.23	3900	
21. Unknown	12.44	6900	
22. Unknown	12.69	4300	
23. Unknown	12.93	6900	
24. Unknown	12.99	6200	
25. Unknown	13.29	4600	
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

128700

Client ID: Hazlet EQ Tank
Site: PVSA Annual

Lab Sample No: 591628
Lab Job No: Q072

Date Sampled: 12/09/04
Date Received: 12/09/04

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>M</u>
Arsenic	ND	3.5	P
Beryllium	ND	0.10	P
Cadmium	ND	0.40	P
Chromium	6.0	2.8	P
Copper	62.3	3.1	P
Lead	8.8	2.2	P
Mercury	ND	0.10	CV
Nickel	4.5	3.9	P
Silver	ND	0.80	P
Zinc	271	5.8	P

M Column - Method Code (See Section 2 of Report)

Site: PVSA Annual

Lab Job No: Q072

Date Received: 12/09/2004

Date Sampled: 12/09/04

Matrix: WATER

QA Batch: 0856

Ammonia

<u>STL Edison</u> <u>Sample #</u>	<u>Client ID</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>Dilution</u> <u>Factor</u>	<u>Analytical</u> <u>Result</u> <u>Units: mg/l</u>
591628	Hazlet_EQ_Tank	12/10/04	12/14/04	1.0	0.72

Quantitation Limit for Ammonia is 0.1 mg/l.

Site: PVSA Annual

Lab Job No: Q072

Date Received: 12/09/2004

Date Sampled: 12/09/04

Matrix: WATER

QA Batch: 1016

BOD

STL Edison Client ID
Sample #Date
AnalyzedAnalytical
Result
Units: mg/l

591628 Hazlet_EQ_Tank

12/10/04

2680

Quantitation Limit for BOD is 5.0 mg/l.

Site: PVSA Annual

Lab Job No: Q072

Date Received: 12/09/2004
Matrix: WATERDate Sampled: 12/09/04
QA Batch: 2091

		COD		
<u>STL Edison</u>	<u>Client ID</u>	<u>Date</u>	<u>Dilution</u>	<u>Analytical</u>
<u>Sample #</u>		<u>Analyzed</u>	<u>Factor</u>	<u>Result</u>
				<u>Units: mg/l</u>
591628	Hazlet_EQ_Tank	12/14/04	10.0	5070

Quantitation Limit for COD is 10.0 mg/l.

Site: PVSA Annual

Lab Job No: Q072

Date Received: 12/09/2004

Date Sampled: 12/09/04

Matrix: WATER

QA Batch: 1840

Ignitability

STL Edison Client ID
Sample #Date
AnalyzedFlashpoint
Units: deg F

591628 Hazlet_EQ_Tank

12/10/04

>160

Site: PVSA Annual

Lab Job No: Q072

Date Received: 12/09/2004

Date Sampled: 12/09/04

Matrix: WATER

QA Batch: 2361

Total Dissolved Solids

STL Edison Client ID
Sample #Date
AnalyzedAnalytical
Result
Units: mg/l

591628 Hazlet_EQ_Tank

12/10/04

415

Quantitation Limit for Total Dissolved Solids is 10.0 mg/l.

Site: PVSA Annual

Lab Job No: Q072

Date Received: 12/09/2004

Date Sampled: 12/09/04

Matrix: WATER

QA Batch: 2699

Total Organic Carbon

<u>STL Edison</u>	<u>Client ID</u>	<u>Date</u>	<u>Dilution</u>	<u>Analytical</u>
<u>Sample #</u>		<u>Analyzed</u>	<u>Factor</u>	<u>Result</u>
				<u>Units: mg/l</u>
591628	Hazlet_EQ_Tank	12/10/04	25	1170

Quantitation Limit for Total Organic Carbon is 1.0 mg/l.

Site: PVSA Annual

Lab Job No: Q072

Date Received: 12/09/2004

Date Sampled: 12/09/04

Matrix: WATER

QA Batch: 2606

Total Suspended Solids

<u>STL Edison</u>	<u>Client ID</u>	<u>Date</u>	<u>Analytical</u>
<u>Sample #</u>		<u>Analyzed</u>	<u>Result</u>
			<u>Units: mg/l</u>
591628	Hazlet_EQ_Tank	12/13/04	154

Quantitation Limit for Total Suspended Solids is 10.0 mg/l.

Site: PVSA Annual

Lab Job No: Q072

Date Received: 12/09/2004

Date Sampled: 12/09/04

Matrix: WATER

QA Batch: 7865

Total Petroleum Hydrocarbons (418.1)

<u>STL Edison</u>	<u>Client ID</u>	<u>Date</u>	<u>Date</u>	<u>Dilution</u>	<u>Analytical</u>
<u>Sample #</u>		<u>Extracted</u>	<u>Analyzed</u>	<u>Factor</u>	<u>Result</u>
					<u>Units: mg/l</u>
591628	Hazlet_EQ_Tank	12/15/04	12/15/04	1.0	10.6

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 1.0 mg/l.